



ST. XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2024-25

<b>Name of Activity</b>	<b><i>"From Sequence to Structure: Crafting Nucleic Acid Models"</i></b>
<b>Date/Duration</b>	August 16, 2024; 12-12:45 pm
<b>Venue</b>	Microbiology Laboratory
<b>Name of organizing Department/Cell</b>	<b>Department of Microbiology</b> , under the <b>DBT Star College Scheme</b> ; in collaboration with <b>Microbiologists Society India</b> , Student Unit.
<b>In collaboration with</b>	
<b>Name/s of Faculty Coordinator</b>	Ms. Katelyn Gonsalves
<b>Stratum of Event</b>	College
<b>Name &amp; details of Resource Person/s If any</b>	N. A
<b>Report</b>	<p>The Department of Microbiology, St. Xavier's College-Mapusa, under the DBT Star College Scheme; in collaboration with Microbiologists Society India, Student Unit organized a model making competition titled <b><i>"From Sequence to Structure: Crafting Nucleic Acid Models"</i></b> on August 16, 2024.</p> <p>58 Second year Microbiology-Molecular Biology Major students participated in this group activity aimed at enhancing students' understanding of nucleic acid structure and organization through practical application. This event sought to combine sustainability and scientific creativity, with participants using recycled and repurposed material such as old paper, cardboard, wires, toothpicks, bottle caps etc., to create 3 dimensional models of double helical DNA, eukaryotic nucleosomes/chromosomes, and transfer RNA. Each model was evaluated based on accuracy, neatness, creativity, and effective use of waste materials.</p> <p>The winning team impressed the judges with their innovative use of old wires, paper, cardboard, and wood to create a detailed nucleosome model depicting the organization of double helical DNA into eukaryotic chromosomes.</p> <p>The event was coordinated by Ms. Katelyn Gonsalves.</p>

<b>Brochure/Poster</b>	<a href="https://xavierscollegegoa.ac.in/wp-content/uploads/2024/08/Nucleic-acid-model-competition-brochure.pdf">https://xavierscollegegoa.ac.in/wp-content/uploads/2024/08/Nucleic-acid-model-competition-brochure.pdf</a>
<b>Photographs</b>	<a href="https://xavierscollegegoa.ac.in/wp-content/uploads/2024/08/Nucleic-acid-model-photos-micro.pdf">https://xavierscollegegoa.ac.in/wp-content/uploads/2024/08/Nucleic-acid-model-photos-micro.pdf</a>
<b>List of participants With signatures</b>	<a href="https://xavierscollegegoa.ac.in/wp-content/uploads/2024/08/MODEL-comp-registration-sheet-17-Aug-2024-12-14-02-min.pdf">https://xavierscollegegoa.ac.in/wp-content/uploads/2024/08/MODEL-comp-registration-sheet-17-Aug-2024-12-14-02-min.pdf</a>
<b>Certificate</b>	-